

WHAT IS CLAIMED IS:

- 1 1. A computer implemented transaction processing method comprising:
2 receiving at a server computer from a client computer transaction data comprising an
3 identifier of a product;
4 scheduling testing of a sample of the identified product;
5 storing in a database a result of the sample testing;
6 retrieving the result from the database in response to a subsequent query; and
7 sending the result over a network to a user.
- 1 2. The method of claim 1 wherein the result comprises an image of the tested sample.
- 1 3. The method of claim 2 wherein the sample comprises a paint product applied to a surface
2 and the image comprises an image of the sample.
- 1 4. The method of claim 2 further comprising periodically storing additional results of the
2 sample testing and wherein the method further comprises sending the additional results
3 over the network to the user.
- 1 5. The method of claim 4 wherein sending comprises formatting the result and the
2 additional results to display at the client computer as a time progression of images of the
3 sample.
- 1 6. A networked computer system comprising:
2 a server configured to exchange data with a plurality of client computers;

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3 a database operatively coupled to the server and storing chemical product data for a
4 plurality of chemical products, the chemical product data comprising a starting point
5 formulation

6 a memory operatively coupled to the server and comprising instructions to configure the
7 server to:

8 receive a request comprising a product identifier from a first one of the
9 plurality of client computers,
10 query the database in response to the received request to retrieve chemical
11 product data; and
12 send the chemical product data to the first client computer.

1 7. The system of claim 6 wherein the chemical product data further comprises data selected
2 from the group consisting of material safety data, chemical property data, processing
3 data, and product manufacturing data.

1 8. The system of claim 6 wherein the memory further comprises instructions to configure
2 the server to process a purchase order and to configure the server to receive a purchase
3 order.

1 9. The system of claim 8 wherein the chemical product data further comprises testing result
2 data stored in the database in response to a sample testing request.

1 10. The system of claim 9 wherein the database further comprises user access permission
2 information and the memory further comprises instructions to query the database to
3 validate access by a user of the first computer, and the instructions to send the chemical
4 product data comprise instruction to send only if access by the first user is validated.

1 11. The system of claim 10 wherein the user access permission information comprises
2 product payment information and the instructions to query to validate comprise
3 instructions to confirm a payment.

12. The system of claim 8 wherein the memory comprises a disk storage media configured as
an integral component of the server.

1 13. A computer implemented transaction processing method comprising:
2 receiving input data identifying a formulation of a chemical product at a server computer
3 from a client computer;
4 retrieving data associated with the formulation from a database;
5 processing the data to determine characteristics associated with a chemical product
6 produced in accordance with the formulation;
7 interacting with a user at a client computer to determine a modification of the
8 formulation;
9 processing data associated with the modified formulation to determine chemical
10 characteristics associated with the modified formulation; and
11 presenting the characteristics of the modified formulation to the user.

1 14. The method of claim 13 wherein the formulation comprises a combination of a plurality
2 of chemical products, and the method further comprises receiving a purchase request to
3 purchase a chemical products identified by the formation.

1 15. The method of claim 13 further comprising:
2 scheduling testing of a sample of a product produced in accordance with the modified
3 formulation; and

4 storing in a database sample testing data associated with testing of the sample.

1 16. The method of claim 15 further comprising sending the sample testing data over a
2 network to the client computer in response to a subsequent request from the client
3 computer.

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